



# DM3110R

## 3000 Series intelligent addressable manual call point w/ isolator

### General

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The DM3100 Series is an intelligent range of addressable manual call points with integrated isolation. The DM3110R is a red, single action indoor MCP with a House-on-Fire functional indicator. It is delivered complete with resettable element, test connector and test key. Multiple optional accessories are available to facilitate most indoor installation requirements.

### Aesthetics

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This single action MCP is a standard profile, indoor MCP suitable for surface and recess mount installations using standard or legacy European electrical boxes. With its designer dual, tricolour LEDs it offers 180°, clear local indication of its operational status, even from a side view in a passage installation. The clean face of the MCP is further enhanced by a front access & test key facility that allows access to the back box and cabling, making additional fastening screw holes obsolete.

### Installation & Maintenance Friendly

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The front facing access for an aesthetically matching test key allows unhindered access regardless of the installation location. The MCP key doubles as a test and disassembly tool allowing removal of the MCP front cover without the need for additional tools.

### Compatibility

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The DM3000 range may be used on compatible Aritech fire systems. They can in many cases be deployed into existing systems without CIE configuration changes.



### Details

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- Reliable single action manual call point for recess or surface mounting
- Integrated short circuit isolation for added safety
- Dual, tri-colour status indicators offers 180° alarm visibility
- Tamper resistant design with resettable or frangible element
- Unobtrusive front facing test facility
- Standard mounting options facilitates easy retrofitting to existing installations
- Back box with rear, top and bottom cable entry
- Screen connection terminal in the back box for electrically noisy installations
- Pluggable connector with link through facility for ease of installation and pre-commissioning testing
- An alarm flag on the face of the manual call point allows alarm indication even without alarm LEDs
- Fast, no-tools-required maintenance using the test key
- Up to 128 devices supported per loop

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### Technical specifications

#### General

|                   |  |
|-------------------|--|
| Status indication | Dual LEDs<br>Alarm (Red Constant)<br>Isolated (Yellow Constant)<br>Fault (Yellow Blinking)<br>Communication (Green Blinking) |
| User interface    | LEDs, alarm flag   |
| Compatibility     | Aritech fire systems   |
| Connectivity      | 2-wire loop  |
| Addressing method | DIP Switches   |

#### Electrical

|                     |  |
|---------------------|--|
| Power supply type   | Loop powered                                     |
| Operating voltage   | 17 to 38 VDC                                     |
| Current consumption | 200 $\mu$ A (Quiescent)<br>2.8 mA (Alarm)        |
| Cable specification | 0.404 to 2.05 mm (0.13 to 3.31 mm <sup>2</sup> ) |
| No. of cable cores  | 2  |
| Terminals           | 4 (A+/A-;B+/B-)                                  |

#### Detection

|                     |                                      |
|---------------------|--------------------------------------|
| Detection principle | Push button/switch                   |
| Monitoring          | Activated, Fault, Off, Short circuit |
| Response time       | < 3 s                                |
| Installation height | Determined by local regulation       |

#### Isolation

|                        |                                |
|------------------------|--------------------------------|
| Type                   | Negative line break            |
| Quantity per loop      | $\leq$ 128                     |
| Isolation voltage      | 14 to 15.5 VDC                 |
| Reconnect voltage      | 14 to 15.5 VDC                 |
| Loop current           | 1 A (Continuous)               |
| Switch current         | 1 A (Pulsed)                   |
| Leakage current        | < 1 mA                         |
| Series resistance      | < 0.06 $\Omega$                |
| Impedance requirements | < 32 devices between isolators |

#### Physical

|                     |   |
|---------------------|---|
| Physical dimensions | 87 $\times$ 87 $\times$ 26 mm (w/o back box)<br>87 $\times$ 87 $\times$ 57 mm (w/ back box) |
| Net weight          | 110 g (w/o back box)<br>165 g (w/ back box)   |
| Colour              | Red (RAL 3028)  |
| Mounting type       | Back box, Recessed mount, Wall mount  |
| Material (body)     | Flame retardent ABS   |
| Functional marking  | House on Fire   |

#### Environmental

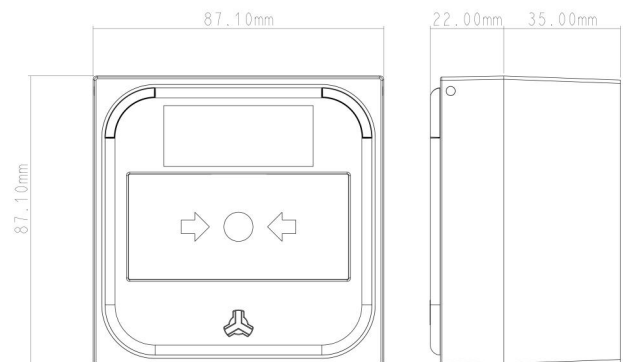
|                       |                         |
|-----------------------|-------------------------|
| Vandal proof          | No                      |
| Operating temperature | -25 to +72°C            |
| Storage temperature   | -25 to +72°C            |
| Relative humidity     | 10 to 95% noncondensing |
| Environment           | Indoor                  |
| IP rating             | IP41                    |

#### Regulatory

|               |                         |
|---------------|-------------------------|
| Compliance    | CE, REACH, RoHS 3, WEEE |
| Certification | CPR                     |
| Standards     | EN54:11                 |

#### Standards & Regulation

|                 |    |
|-----------------|----|
| Voluntary marks | A+ |
|-----------------|----|



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